

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Sanders	
Application No.: 10/537,280	Group Art Unit:
Filed: 5/27/2005	Examiner:
Title: Binding Partners for the Thyrotropin Receptor and Uses Thereof	
Attorney Docket No.: URQU.P-016	

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

Response to Notification to Comply

Dear Sir:

Responsive to the Notification to Comply mailed November 9, 2005 for the above-captioned application, Applicants have electronically filed a sequence listing for this application. A printed copy of the sequence listing is attached. The undersigned certifies that the printed copy and the electronic copy have the same content. No new matter has been added.

The notification also indicated an additional claim fee of \$400. A credit card authorization to pay this fee is included with this submission.

Respectfully submitted,


Marina T. Larson, Ph.D
Attorney/Agent for Applicant(s)
Reg. No. 32038

(970) 468 6600

URQUP16_seq.txt
SEQUENCE LISTING

<110> Sanders, Jane
Furmaniak, Jadwiga
Smith, Bernard Rees

<120> Binding Partners for the Thyrotropin Receptor and uses thereof

<130> URQU.P-016

<140> US 10/537,260
<141> 2003-11-28

<150> PCT/GB2003/005171
<151> 2003-11-28

<150> GB 0227964.4
<151> 2002-11-29

<150> GB 0302140.9
<151> 2003-01-29

<150> GB 0315147.9
<151> 2003-06-27

<160> 38

<170> PatentIn version 3.1

<210> 1
<211> 121
<212> PRT
<213> Homo sapiens

<400> 1

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

Ser Leu Lys Ile Ser Cys Arg Gly Ser Gly Tyr Arg Phe Thr Ser Tyr
20 25 30

Trp Ile Asn Trp Val Arg Gln Leu Pro Gly Lys Gly Leu Glu Trp Met
35 40 45

Gly Arg Ile Asp Pro Thr Asp Ser Tyr Thr Asn Tyr Ser Pro Ser Phe
50 55 60

Lys Gly His Val Thr Val Ser Ala Asp Lys Ser Ile Asn Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Gly Met Tyr Tyr Cys
85 90 95

Ala Arg Leu Glu Pro Gly Tyr Ser Ser Thr Trp Ser Val Asn Trp Gly
100 105 110

URQUP16_seq.txt

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 2
<211> 5
<212> PRT
<213> Homo sapiens

<400> 2

Ser Tyr Trp Ile Asn
1 5

<210> 3
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3

Arg Ile Asp Pro Thr Asp Ser Tyr Thr Asn Tyr Ser Pro Ser Phe Lys
1 5 10 15

Gly

<210> 4
<211> 12
<212> PRT
<213> Homo sapiens

<400> 4

Leu Glu Pro Gly Tyr Ser Ser Thr Trp Ser Val Asn
1 5 10

<210> 5
<211> 131
<212> PRT
<213> Homo sapiens

<400> 5

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15

Ser Leu Lys Ile Ser Cys Arg Gly Ser Gly Tyr Arg Phe Thr Ser Tyr
20 25 30

Trp Ile Asn Trp Val Arg Gln Leu Pro Gly Lys Gly Leu Glu Trp Met
35 40 45

Gly Arg Ile Asp Pro Thr Asp Ser Tyr Thr Asn Tyr Ser Pro Ser Phe
50 55 60

URQUP16_seq.txt

Lys Gly His Val Thr Val Ser Ala Asp Lys Ser Ile Asn Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Gly Met Tyr Tyr Cys
85 90 95

Ala Arg Leu Glu Pro Gly Tyr Ser Ser Thr Trp Ser Val Asn Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro
130

<210> 6
<211> 111
<212> PRT
<213> Homo sapiens

<400> 6

Leu Thr Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Arg Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Asn Ser Ser Asn Ile Gly Asn Asn
20 25 30

Ala Val Asn Trp Tyr Gln Gln Leu Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Tyr Asp Asp Gln Leu Pro Ser Gly Val Ser Asp Arg Phe Ser
50 55 60

Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala Ile Arg Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Thr Ser Trp Asp Asp Ser Leu
85 90 95

Asp Ser Gln Leu Phe Gly Gly Thr Arg Leu Thr Val Leu Gly
100 105 110

<210> 7
<211> 13
<212> PRT
<213> Homo sapiens

<400> 7

URQUP16_seq.txt

Ser Gly Asn Ser Ser Asn Ile Gly Asn Asn Ala Val Asn
 1 5 10

<210> 8

<211> 7

<212> PRT

<213> Homo sapiens

<400> 8

Tyr Asp Asp Gln Leu Pro Ser
 1 5

<210> 9

<211> 11

<212> PRT

<213> Homo sapiens

<400> 9

Thr Ser Trp Asp Asp Ser Leu Asp Ser Gln Leu
 1 5 10

<210> 10

<211> 363

<212> DNA

<213> Homo sapiens

<400> 10

caaatgcagc tggcgcgtc tggaggcagag gtgaaaaagc ccggggagtc tctgaagatc 60

tccctgttaggg gttctggata cagggttacc agctactgga tcaactgggt gcgccagctg 120

cccgaaaag gccttagatgt gatgggcagg attgatccta ctgactctta taccaactac 180

agtccatcct tcaaaggcca cgtcaccgtc tcagctgaca agtccatcaa cactgcctac 240

ctgcagtgga gcagcctgaa gccctcgac accggcatgt attactgtgc gaggctcgaa 300

ccgggctata gcagcacctg gtccgtaaat tggggccagg gaaccctggt caccgtctcc 360

tca 363

<210> 11

<211> 15

<212> DNA

<213> Homo sapiens

<400> 11

agctactgga tcaac 15

<210> 12

<211> 51

<212> DNA

<213> Homo sapiens

<400> 12

aggattgatc ctactgactc ttataccaac tacagtccat cttcaaagg c 51

URQUP16_seq.txt

<210>	13					
<211>	36					
<212>	DNA					
<213>	Homo sapiens					
<400>	13					
ctcgaaccgg	gctatagcag	cacctggtcc	gtaaat	36		
<210>	14					
<211>	394					
<212>	DNA					
<213>	Homo sapiens					
<400>	14					
caaatgcagc	tggcagtc	tggagcagag	gtaaaaagc	ccggggagtc	tctgaagatc	60
tcctgttaggg	gttctggata	caggtttacc	agctactgga	tcaactgggt	gcgccagctg	120
cccggaaag	gcctagagtg	gatgggcagg	attgatccta	ctgactctta	taccaactac	180
agtccatcct	tcaaaggcca	cgtcaccgtc	tcagctgaca	agtccatcaa	cactgcctac	240
ctgcagtgga	gcagcctgaa	ggcctggac	accggcatgt	attactgtgc	gaggctcgaa	300
ccgggctata	gcagcacctg	gtccgtaaat	tggggccagg	gaaccctggt	caccgtctcc	360
ttagcctcca	ccaaggggccc	atcggtcttc	cccc			394
<210>	15					
<211>	333					
<212>	DNA					
<213>	Homo sapiens					
<400>	15					
ctgcctgtgc	tgactcagcc	accctcggtg	tctggagccc	ccaggcagag	ggtcaccatc	60
tcctgttctg	gaaacagctc	caacatcgga	aataatgctg	taaactggta	ccagcagctc	120
ccaggaaagg	ctcccaaact	cctcatttat	tatgatgatc	aactgccctc	aggggtctct	180
gaccgattct	ctggctccag	gtctggcacc	tccgcctccc	tggccatccg	tgggctccag	240
tctgaggatg	aggctgatta	ttactgtaca	tcatggatg	acagcctgga	tagtcaactg	300
ttcggcggag	ggaccaggct	gaccgtccta	ggt			333
<210>	16					
<211>	39					
<212>	DNA					
<213>	Homo sapiens					
<400>	16					
tctggaaaca	gctccaacat	cgaaaataat	gctgtaaac			39
<210>	17					
<211>	21					
<212>	DNA					
<213>	Homo sapiens					

URQUP16_seq.txt

<400> 17
tatgatgatc aactgccctc a

21

<210> 18
<211> 33
<212> DNA
<213> Homo sapiens

<400> 18
acatcatggg atgacagcct ggatagtcaa ctg

33

<210> 19
<211> 119
<212> PRT
<213> Mus sp.

<400> 19

Asp Val Gln Ile Gln Gln Pro Gly Thr Glu Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Arg Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr
20 25 30

Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Glu Ile Asp Pro Ser Asp Ser Tyr Thr Asn Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ser Arg Asn Tyr Gly Ser Gly Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Leu Thr Val Ser Ser
115

<210> 20
<211> 5
<212> PRT
<213> Mus sp.

<400> 20

Thr Tyr Trp Met His
1 5

<210> 21

URQUP16_seq.txt

<211> 17
<212> PRT
<213> Mus sp.

<400> 21

Glu Ile Asp Pro Ser Asp Ser Tyr Thr Asn Tyr Asn Gln Lys Phe Lys
1 5 10 15

Gly

<210> 22
<211> 10
<212> PRT
<213> Mus sp.

<400> 22

Asn Tyr Gly Ser Gly Tyr Tyr Phe Asp Tyr
1 5 10

<210> 23
<211> 124
<212> PRT
<213> Mus sp.

<400> 23

Asp Val Gln Ile Gln Gln Pro Gly Thr Glu Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Arg Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr
20 25 30

Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Glu Ile Asp Pro Ser Asp Ser Tyr Thr Asn Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met His Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ser Arg Asn Tyr Gly Ser Gly Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Leu Thr Val Ser Ser Ala Lys Thr Thr Pro
115 120

URQUP16_seq.txt

<210> 24
<211> 106
<212> PRT
<213> Mus sp.

<400> 24

Gly Val Glu Met Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr
35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Thr Glu
65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Trp Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 25
<211> 10
<212> PRT
<213> Mus sp.

<400> 25

Ser Ala Ser Ser Ser Val Ser Tyr Met His
1 5 10

<210> 26
<211> 7
<212> PRT
<213> Mus sp.

<400> 26

Asp Thr Ser Lys Leu Ala Ser
1 5

<210> 27
<211> 9
<212> PRT
<213> Mus sp.

<400> 27

URQUP16_seq.txt

Gln Gln Trp Ser Ser Asn Pro Trp Thr
1 5

<210> 28
<211> 110
<212> PRT
<213> Mus sp.

<400> 28

Gly Val Glu Met Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr
35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Thr Glu
65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Trp Thr
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Leu Met Leu
100 105 110

<210> 29
<211> 357
<212> DNA
<213> Mus sp.

<400> 29
gacgtccaga tccagcagcc tgggactgag cttgtgaagc ctggggcttc agtgagactg 60
tcctgcaagg cttctggcta caccttcacc acctactgga tgcactgggt gaagcagagg 120
cctggacaag gccttgagtg gatcgagag attgatcctt ctgatagtta tactaactat 180
aatcaaaaagt tcaaggcCAA ggccacattg actgttagaca aatcctccag cacagcctac 240
atgcaccta gcagcctgac atctgaggac tctgcggctt attactgttc aagaaactac 300
ggtagtggct actacttga ctactggggc caaggcacca ctctcacagt ctcctca 357

<210> 30
<211> 15
<212> DNA
<213> Mus sp.

<400> 30

URQUP16_seq.txt

acctactgga tgcac 15

<210> 31
<211> 51
<212> DNA
<213> Mus sp.

<400> 31
gagattgatc cttctgatag ttatactaac tataatcaaa agttcaaggg c 51

<210> 32
<211> 30
<212> DNA
<213> Mus sp.

<400> 32
aactacggta gtggctacta ctttgactac 30

<210> 33
<211> 373
<212> DNA
<213> Mus sp.

<400> 33
gacgtccaga tccagcagcc tgggacttag cttgtgaagc ctggggcttc agtgagactg 60
tcctgcaagg cttctggcta caccttcacc acctactgga tgcactgggt gaagcagagg 120
cctggacaag gcctttagtg gatcgagag attgatcctt ctgatagtta tactaactat 180
aatcaaaaagt tcaagggcaa ggccacattt actgttagaca aatcctccag cacagcctac 240
atgcacactca gcagcctgac atctgaggac tctgcggctt attactgttc aagaaactac 300
ggtagtggct actacttga ctactggggc caaggcacca ctctcacagt ctcctcagcc 360
aaaacaacac ccc 373

<210> 34
<211> 318
<212> DNA
<213> Mus sp.

<400> 34
ggcgttgaga tgacacagtc gccagcaatc atgtctgcat ctccagggga gaaggtcacc 60
atgacactgca gtgccagctc aagtgttaatg tacatgcact ggtaccagca gaagtcaggc 120
acctccccca aaagatggat ttatgacaca tccaaactgg cttctggagt ccctgctcgc 180
ttcagtggca gtgggtctgg gacctttac tctctcacaa tcagcagcat ggagactgaa 240
gatgctgcca cttattactg ccagcagtgg agtagtaacc cgtggacgtt cggtggaggc 300
accaaactgg aaatcaa 318

<210> 35
<211> 30
<212> DNA

URQUP16_seq.txt

<213> Mus sp.

<400> 35

agtgccagct caagtgtaa ttacatgcac

30

<210> 36

<211> 21

<212> DNA

<213> Mus sp.

<400> 36

gacacatcca aactggcttc t

21

<210> 37

<211> 27

<212> DNA

<213> Mus sp.

<400> 37

cagcagtggaa gtagtaaccc gtggacg

27

<210> 38

<211> 331

<212> DNA

<213> Mus sp.

<400> 38

ggcgttgaga tgacacagtc gccagcaatc atgtctgcat ctccaggga gaaggtcacc

60

atgacctgca gtgccagctc aagtgtaaat tacatgcact ggtaccagca gaagtcaggc

120

acctccccca aaagatggat ttatgacaca tccaaactgg cttctggagt ccctgctcgc

180

ttcagtggca gtgggtctgg gacctttac tctctcacaa tcagcagcat ggagactgaa

240

gatgctgcca cttattactg ccagcagtgg agtagtaacc cgtggacgtt cggtggaggc

300

accaaactgg aaatcaaacg gctgatgctg c

331